

SULPHUR
MATERIAL SAFETY DATA SHEET

1. IDENTITY OF MATERIAL

Product Name : Sulphur		Chemical Designation : Sulphur	
Trade Name : No		Synonyms : No	
Formula : S	Label : Category Class 4.1	CAS Number : 7704-34-9	UN Number: 1350
Regulated Identification : UN Number 1350	Shipping Name Codes / Label : Combustible, Toxic Solid.		Hazchem Code : 2 (Z)

2. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Solid / Liquid	Boiling Point in Degree C.: 444.6 °C	Vapour Pressure at 35 degree C : 1mm Hg
Appearance(Colour) : Yellow Powder or Rhombic Powder (Crystals)	Melting Point in degree C : 119 °C	Evaporation rate at 30 degree C: ----
Odour : No	Vapour Density (Air-1) : ---	Solubility in water at 30 degree C Insoluble
Others (Corrosivity, Etc) : Corrosive	Specific Gravity (Water-1): 2.07	PH: Acidic to Neutral.

3. FIRE AND EXPLOSIVE HAZARDS DATA

Explosion / Flammability : Combustible.(Dust can be explosive.)	Flash Point ° C: 207.2 ° C	Explosive range (dust suspended in air): 35-1400 g/m³	Autoignition Temperature ° C: 232° C
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4. REACTIVE HAZARDS

	Impact : Stable.	Hazardous Combustion Production) : SO₂, H₂S
Stability	Static Discharge : Yes.	(Hazardous Decomposition Production) : No

	Reactivity : Can react violently with carbides, halogens.	(Conditions to avoid): Avoid contact with carbides, halogens.
Hazardous Polymerization	May Not Occur.	

5. HEALTH HAZARD DATA

Routes of Entry : **(Inhalation, Skin, Mucous Membranes, Eye Contact and Ingestion)**

Effects of Exposure / Symptoms: Contact with Skin and eye cause irritation.

LD 50 (in rat) Orally or percutaneous absorption) (mg / kg body weight) ----- LC 50 (in rat) (mg/l)/ hour. ----

Permissible Exposure)	ppm	mg /cu. m.	Short Term	ppm
mg /cu. m			Exposure	
Limit (PEL)	5	10	Limit(STEL)	5
10				
Threshold Limit		ppm	mg/cu. m	Odour
ppm				
Value(TLV) of ACGIH	2	5	Threshold	---

Emergency Treatment : **Wash with running water.**

6. HAZARD SPECIFICATION

NFPA HAZARD SIGNAL	HEALTH 2	FLAMMABILITY 1	STABILITY 0	SPECIAL 0
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Known Hazards

Combustible Liquid : No	Water Reactive Material : ----	Irritant : Yes
Flammable Material: Yes	Oxidiser: No	Sensitizer: No
Phrophoric Materia: No	Organic Peroxide: No	Carcinogen: No
Explosive Material : Yes	Corrosive Material : Yes	Mutagen: No

Unstable Material No	Compressed Gas : No	Others (Specify) : No
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7. SAFE USAGE DATA

Ventilation	General
Personal Protective Equipment Required	Eyes (Specify) : Safety Goggle/ Face Shield.
	Respiratory (Specify) : Dust Mask
	Gloves (Specify) : PVC / Rubber Gloves
	Clothing (specify) : Boiler Suit
Precautions	Handling & Storage Others (Specify) : Store In Cool, Dry Ventilated Separate Area Away From Source Of Ignition.

8. EMERGENCY RESPONSE DATA

	Fire Extinguishing Media : Water spray, Dry Chemical Powder(DCP), Carbon Dioxid(CO₂)
Fire	Special Procedures : Use Self Contained Breathing Apparatus Set While Fire Fighting.
	Unusual Hazards : Causes Irritation Due To Contact With Dust.
	First Aid Measures : Wash Contacted Body Parts With Running Water.
Spills	Steps to be taken : Collect Physically.
	Waste disposal method : Smaller Quantity Can Be Land Filled.

9. ADDITIONAL INFORMATION (DOS & DON'T)

- Use proper Respiratory Protection (Dust mask) & Safety goggle while handling
- Ensure Storage at ventilated and specified area away from heat & source of ignition.
- Wash contacted body part with plenty of water.
- Do not allow vehicles and unauthorized personnel .

10. SOURCES USED

Chemical safety data sheets – Royal Society of Chemistry.

Hazardous chemicals by – Richard. J. Lewis SR Desk Reference.

Occupational Health Hazard by Peter. B. Cook

11. MANUFACTURER / SUPPLIER DATA

Firm's Name: Mangalore Refinery & Petrochemicals Ltd.	Standard Packing : Bulk Load(Truck) 10 to 18 MT..
Mailing Address: At P.O Kuthethoor, Mangalore-575030 (D.K.)	Emergency Telephone During Transit : (0824)2270400
Telephone Number:(0824)2270400	
TeleFax. Number :(0824)2270013	
Contact Persons In Case of Emergency:	
Head(Operations) TEL: :(0824)2270400,Ext(O)2440,(R)4440	
Head-Marketing TEL: :(0824)2270400, Ext(O)2107	
Fire & Safety ,Control Room TEL: :(0824) 2270279, 2270400,Ext-2333/3333,2555	